

### **ABSTRACT OF THE DISCLOSURE**

There is provided a packet transmission method in which packet transmission efficiency is improved using a network switch. The network switch includes a management table different from a MAC table. In the network switch, a MAC address of a host is registered in the management table when a failure occurs in the host. In one embodiment, packets are discarded instead of broadcast to the network when the MAC address of the host is not found. Thus, the network switch according to one embodiment of the present invention can improve packet transmission efficiency by preventing traffic from occurring in the network.